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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gilbert Wolrich et al. Art Unit : 2183  
Serial No. : 10/070,035 Examiner : Unknown  
Filed : February 26, 2002  
Title : BRANCH INSTRUCTIONS IN A MULTITHREADED PARALLEL  
PROCESSING SYSTEM

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050, reference 10559-306US1.

Respectfully submitted,

Date:

6/2/04

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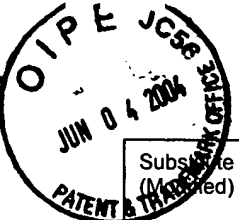
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Substitute Form PTO-1449 (Mandatory)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-306US1	Application No. 10/070,035
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Gilbert Wolrich et al.	
		Filing Date February 26, 2002	Group Art Unit 2183

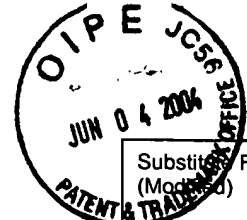
**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AA	WO 01/50679	07/12/2001	WIPO				
	AB	WO 01/50247	07/12/2001	WIPO				
	AC	WO 01/48619	07/05/2001	WIPO				
	AD	WO 01/48606	07/05/2001	WIPO				
	AE	WO 01/48599	07/05/2001	WIPO				
	AF	WO 01/48596	07/05/2001	WIPO				
	AG	WO 01/41530	06/14/2001	WIPO				
	AH	WO 01/16782	03/08/2001	WIPO				
	AI	WO 01/16770	03/08/2001	WIPO				
	AJ	WO 01/16769	03/08/2001	WIPO				
	AK	WO 01/16718	03/08/2001	WIPO				
	AL	WO 01/15718	03/08/2001	WIPO				
	AM	WO 97/38372	10/16/1997	WIPO				
	AN	WO 94/15287	07/07/1994	WIPO				
	AO	EP 0 809 180	11/26/1997	Europe				
	AP	EP 0 745 933	12/04/1996	Europe				
	AQ	EP 0 633 678	01/11/1995	Europe				
	AR	EP 0 464 715	01/08/1992	Europe				
	AS	EP 0 379 709	08/01/1990	Europe				
	AT	59111533	06/27/1984	Japan				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AU	Agarwal et al., "April: A Processor Architecture for Multiprocessing," Proceedings of the 17 <sup>th</sup> Annual International Symposium on Computer Architecture, IEEE, pp. 104-114.
	AV	Byrd et al., "Multithread Processor Architectures," <i>IEEE Spectrum</i> , Vol. 32, No. 8, New York, 1 August 1995, pp. 38-46.
	AW	Chang et al., "A New Mechanism For Improving Branch Predictor Performance," IEEE, pp. 22-31 (1994).

Examiner Signature	Date Considered
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-306US1	Application No. 10/070,035
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Gilbert Wolrich et al.	
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AX	Doyle et al., <i>Microsoft Press Computer Dictionary</i> , 2 <sup>nd</sup> ed., Microsoft Press, Redmond, Washington, USA, 1994, p. 326.
	AY	Farkas et al., "The multicluster architecture: reducing cycle time through partitioning," IEEE, vol. 30, December 1997, pp. 149-159.
	AZ	Fillo et al., "The M-Machine Multicomputer," IEEE Proceedings of MICRO-28, 1995, pp. 146-156.
	AAA	Gomez et al., "Efficient Multithreaded User-Space Transport for Network Computing: Design and Test of the TRAP Protocol," <i>Journal of Parallel and Distributed Computing</i> , Academic Press, Duluth, Minnesota, USA, vol. 40, no. 1, 10 January 1997, pp. 103-117.
	ABB	Haug et al., "Reconfigurable hardware as shared resource for parallel threads," IEEE Symposium on FPGAs for Custom Computing Machines, 1998.
	ACC	Hauser et al., "Garp: a MIPS processor with a reconfigurable coprocessor," Proceedings of the 5 <sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1997.
	ADD	Hennessy et al., "Computer Organization and Design: The Hardware/Software Interface," Morgan Kaufman Publishers, 1998, pp. 476-482.
	AEE	Hyde, R., "Overview of Memory Management," <i>Byte</i> , vol. 13, no. 4, 1998, pp. 219-225.
	AFF	Intel, "IA-64 Application Developer's Architecture Guide," Rev.1.0, May 1999, pp. 2-2, 4-29 to 4-31, 7-116 to 7-118 and c-21.
	AGG	Keckler et al., "Exploiting fine grain thread level parallelism on the MIT multi-ALU processor," IEEE, June 1998.
	AHH	Litch et al., "StrongARMing Portable Communications," IEEE Micro, 1998, pp. 48-55.
	AII	Mendelson et al., "Design Alternatives of Multithreaded Architecture," <i>International Journal of Parallel Programming</i> , vol. 27, no. 3, Plenum Press, New York, USA, June 1999, pp. 161-193.
	AJJ	Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems," Internet Document, <i>Online!</i> , 13 November 1998.
	AKK	Thistle et al., "A Processor Architecture for Horizon," IEEE, 1998, pp. 35-41.
	ALL	Tremblay et al., "A Three Dimensional Register File for Superscalar Processors," IEEE Proceedings of the 28 <sup>th</sup> Annual Hawaii International Conference on System Sciences, 1995, pp. 191-201.
	AMM	Trimberger et al., "A time-multiplexed FPGA," Proceedings of the 5 <sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1998.
	ANN	Turner et al., "Design of a High Performance Active Router," Internet Document, <i>Online</i> , 18 March 1999.
	AOO	Vibhatavani et al., "Simultaneous Multithreading-Based Routers," Proceedings of the 2000 International Conference of Parallel Processing, Toronto, Ontario, Canada, 21-24 August 2000, pp. 362-359.
	APP	Wadler, "The Concatenate Vanishes," University of Glasgow, December 1987 (revised November 1989), pp. 1-7.
	AQQ	Wazlowski et al., "PRSIM-II computer and architecture," IEEE Proceedings, Workshop on FPGAs for Custom Computing Machines, 1993.

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